Journal of Non-Crystalline Solids 110 (1989) 285–287
North-Holland, Amsterdam

AUTHOR INDEX

Al-Adel, F.F., see Khawaja 110 (1989) 33
Alvarez, F., see Pereyra 110 (1989) 175
Anderson, M.A., M. Tomić, M.J. Gieselmann and M.A. Villegas, The critical gelling point in silica gels containing lithium, sodium and potassium 110 (1989) 17
Apostolov, A., see Petkov 110 (1989) 184
Asami, K., H. Yoshioka, K. Hashimoto, K. Shimizu and K. Kobayashi, Superlattice-like structure of sputter-deposited amorphous aluminum–heavy element alloys 110 (1989) 258

Bagley, B.G., see Khan 110 (1989) 142
Barboux, P., see Khan 110 (1989) 142
Belliveau, T.F. and D.J. Simkin, On the coordination environment of rare earth ions in oxide glasses. Calcium titanosilicate and sodium aluminosilicate glasses 110 (1989) 127
Benazeth, S., M.H. Tuilier, A.M. Loireau-Lozac'h, H. Dexpert, P. Lagarde and J. Flahaut , An EXAFS structural approach of the lanthanum–gallium–sulfur glasses 110 (1989) 89
Berta, Y., see Speyer 110 (1989) 235
Biswas, P.K., see Kundu 110 (1989) 13
Bräutigam, U., H. Bürger and W. Vogel, Some aspects of property tailoring of sol–gel derived thin SiO_2 films 110 (1989) 163
Bürger, H., see Bräutigam 110 (1989) 163

Carreño, M.P., see Pereyra 110 (1989) 175
Chou, K.-S., Preparation of monolithic borophosphosilicate glass by the sol–gel method 110 (1989) 122
Chowdari, B.V.R. and K. Radhakrishnan, Electrical and electrochemical characterization of $Li_2O:P_2O_5:Nb_2O_5$-based solid electrolytes 110 (1989) 101
Chung, I.J., see Ro 110 (1989) 26
Chung, U-In and J.-Y. Lee, A study on hydrogen-induced amorphization in the La–Ni system 110 (1989) 203
Collier, I.T., see Hampton 110 (1989) 213

Davis, E.A., see Singh 110 (1989) 249
DenBoer, M.L., see Guo 110 (1989) 111
Dexpert, H., see Benazeth 110 (1989) 89
Du, N., see Wong 110 (1989) 179

Duffy, J.A. and Z. Xu, The vanadyl ion as a spectroscopic probe: Measurement of optical basicity in the visible/near-infrared region 110 (1989) 223

Ennas, G., M. Magini, F. Padella, F. Pompa and M. Vittori, On the formation of Pd_3Si by mechanical alloying solid-state reaction 110 (1989) 69

Fang, P.H., On the dispersion function of Jonscher and β-alumina relaxation 110 (1989) 211
Farnan, I., see Stebbins 110 (1989) 1
Feng, B.-Z., Y.-Q. Gao, Y. Zheng, S.-L. Li, X. Liu, G.-L. Jin and Q.-L. Tan, Investigation of Fe–P–Si glassy alloys 110 (1989) 81
Flahaut, J., see Benazeth 110 (1989) 89
Freiman, S.W., Book review: Glasses and Glass-Ceramics 110 (1989) 284
Fujimori, H., see Noh 110 (1989) 190
Fukumi, K. and S. Sakka, Structure of alkali or alkaline earth niobium gallate glasses 110 (1989) 61
Fuller, K.C., see Robinson 110 (1989) 279

Ganguli, D., see Kundu 110 (1989) 13
Gao, Y.-Q., see Feng 110 (1989) 81
Gieselmann, M.J., see Anderson 110 (1989) 17
Ginther, R.J., see Griscom 110 (1989) 273
Giridhar, A., see Mahadevan 110 (1989) 118
Gómez, R., see López 110 (1989) 170
Goyal, D.R., see Maan 110 (1989) 53
Griscom, D.L. and R.J. Ginther, Bromine-associated defect centers in irradiated ZrF_4-based glasses 110 (1989) 273
Guo, T. and M.L. denBoer, Surface EXAFS study of the crystallization of a metallic glass 110 (1989) 111
Gurman, S.J., see Singh 110 (1989) 249

Hampton, R.N., I.T. Collier, H.A.A. Sidek and G.A. Saunders, The effect of hydrostatic pressure on the dielectric constants, and their temperature dependences, of phosphate and tellurite glasses 110 (1989) 213
Hashimoto, K., see Asami 110 (1989) 258
Hong, K.-S., see Speyer 110 (1989) 235
Hussain, Z., see Khawaja 110 (1989) 33

Hussain, Z., M.A. Salim, M.A. Khan and E.E. Khawaja, X-ray photoelectron and Auger spectroscopy study of copper–sodium–germanate glasses 110 (1989) 44

Ibara, Y., see Nasu 110 (1989) 229
Inoue, A., see Noh 110 (1989) 190

Jin, G.-L., see Feng 110 (1989) 81
John, P.K., see Wong 110 (1989) 179

Kadono, K., see Kinugawa 110 (1989) 265
Kang, I.K., see Noh 110 (1989) 190
Khan, M.A., see Khawaja 110 (1989) 33
Khan, M.A., see Hussain 110 (1989) 44
Khan, S.A., P. Barboux, B.G. Bagley and F.E. Torres, Rheology of precursors for sol–gel derived $YBa_2Cu_3O_{7-x}$ superconductors 110 (1989) 142
Khan, S.A., R.K. Prud'homme, E.M. Rabinovich and M.J. Sammon, Rheology of the gelation of fluorine-doped silica sols 110 (1989) 153
Khattak, G.D., see Khawaja 110 (1989) 33
Khawaja, E.E., M.A. Salim, M.A. Khan, F.F. Al-Adel, G.D. Khattak and Z. Hussain, XPS, Auger, electrical and optical studies of vanadium phosphate glasses doped with nickel oxide 110 (1989) 33
Khawaja, E.E., see Hussain 110 (1989) 44
Kinugawa, K., K. Kadono and H. Tanaka, Raman spectroscopic study on the structure of $ZnCl_2$–ZnX_2 and $ZnCl_2$–KX (X = Br, I) glasses 110 (1989) 265
Kobayashi, K., see Asami 110 (1989) 258
Kubodera, K., see Nasu 110 (1989) 229
Kumar, A., see Maan 110 (1989) 53
Kundu, D., P.K. Biswas and D. Ganguli, Sol–gel preparation of wavelength-selective reflecting coatings in the system ZrO_2–SiO_2 110 (1989) 13

Lagarde, P., see Benazeth 110 (1989) 89
Lee, J.-Y., see Chung 110 (1989) 203
Li, S.-L., see Feng 110 (1989) 81
Liu, X., see Feng 110 (1989) 81
Loireau-Lozac'h, A.M., see Benazeth 110 (1989) 89
López, T., A. López-Gaona and R. Gómez, Synthesis, characterization and activity of Ru/SiO_2 catalysts prepared by the sol–gel method 110 (1989) 170
López-Gaona, A., see López 110 (1989) 170

Maan, A.S., D.R. Goyal and A. Kumar, Steady-state photoconductivity and decay kinetics in thin films of a-$In_{20}Se_{80}$ 110 (1989) 53
Magini, M., see Ennas 110 (1989) 69
Mahadevan, S. and A. Giridhar, On the chemical and mechanical thresholds of some chalcogenide glasses 110 (1989) 118
Masumoto, T., see Noh 110 (1989) 190
Morikawa, H., Y. Shimizugawa, Y. Tabira and T. Sato, Characterization of $Fe_{80}P_{16}C_4$ amorphous alloy powders made by rapid quenching water atomization process 110 (1989) 74

Nasu, H., Y. Ibara and K. Kubodera, Optical third-harmonic generation from some high-index glasses 110 (1989) 229
Noh, T.H., A. Inoue, H. Fujimori, T. Masumoto and I.K. Kang, The enthalpy relaxation of amorphous Fe–Co alloys with metal–metalloid and metal–metal compositions 110 (1989) 190

Padella, F., see Ennas 110 (1989) 69
Pastor, R.C., see Robinson 110 (1989) 279
Pereyra, I., M.P. Carreño and F. Alvarez, Negative conductance and sequential tunneling in amorphous silicon–silicon carbide double barrier devices 110 (1989) 175
Petkov, V., A. Apostolov and V. Skumryev, Short-range order in RE_4Al_3 metallic glasses (RE = Pr, Gd, Tb, Dy) 110 (1989) 184
Pompa, F., see Ennas 110 (1989) 69
Prud'homme, R.K., see Khan 110 (1989) 153

Rabinovich, E.M., see Khan 110 (1989) 153
Radhakrishnan, K., see Chowdari 110 (1989) 101
Risbud, S.H., see Speyer 110 (1989) 235
Ro, J.C. and I.J. Chung, Sol–gel kinetics of tetraethylorthosilicate (TEOS) in acid catalyst 110 (1989) 26
Robinson, M., K.C. Fuller and R.C. Pastor, On the origin of optical absorptions in heavy metal fluoride glass: I. The absorption at 2.9 μm 110 (1989) 279

Sakka, S., see Fukumi 110 (1989) 61
Salim, M.A., see Khawaja 110 (1989) 33
Salim, M.A., see Hussain 110 (1989) 44
Sammon, M.J., see Khan 110 (1989) 153
Sato, T., see Morikawa 110 (1989) 74
Saunders, G.A., see Hampton 110 (1989) 213
Shimizu, K., see Asami 110 (1989) 258
Shimizugawa, Y., see Morikawa 110 (1989) 74
Sidek, H.A.A., see Hampton 110 (1989) 213
Simkin, D.J., see Belliveau 110 (1989) 127
Singh, A., S.J. Gurman and E.A. Davis, An EXAFS study of the local structure of Ce–Si–O amorphous thin films 110 (1989) 249
Sinning, H.-R., Low-frequency internal friction of metallic glasses near T_g. A critique of the use of the torsion pendulum 110 (1989) 195

Skumryev, V., see Petkov 110 (1989) 184
Spearing, D.R., see Stebbins 110 (1989) 1
Speyer, R.F., Y. Berta, K.-S. Hong and S.H. Risbud, The mechanism of nucleation and growth from $CdGeAs_2$ glass 110 (1989) 235
Stebbins, J.F., D.R. Spearing and I. Farnan, Lack of local structural orientation in oxide glasses quenched during flow: NMR resultus 110 (1989) 1

Tabira, Y., see Morikawa 110 (1989) 74
Tan, Q.-L., see Feng 110 (1989) 81
Tanaka, H., see Kinugawa 110 (1989) 265
Tomić, M., see Anderson 110 (1989) 17
Tong, B.Y., see Wong 110 (1989) 179
Torres, F.E., see Khan 110 (1989) 142
Tuilier, M.H., see Benazeth 110 (1989) 89

Villegas, M.A., see Anderson 110 (1989) 17
Vittori, M., see Ennas 110 (1989) 69
Vogel, W., see Bräutigam 110 (1989) 163

Wong, S.K., N. Du, P.K. John and B.Y. Tong, SIMS study of the concentration of dopants in LPCVD silicon thin films 110 (1989) 179

Xu, Z., see Duffy 110 (1989) 223

Yoshioka, H., see Asami 110 (1989) 258

Zheng, Y., see Feng 110 (1989) 81

Journal of Non-Crystalline Solids 110 (1989) 289–291
North-Holland, Amsterdam

SUBJECT INDEX

Absorption
Silicates, Thin Films 110 (1989) 13

Auger Electron Spectroscopy
XPS, Ionic Conductivity, Electronic Conductivity 110 (1989) 44

Borates
Sol–Gel Method, Silicates, Phosphates 110 (1989) 122

Catalysis
Sol–Gel Method, Surface Properties 110 (1989) 170

Chalcogenides
Crystallization, Differential Thermal Analysis, Electron Microscopy 110 (1989) 235
Elastic Properties 110 (1989) 118
EXAFS, Structure 110 (1989) 89
Optical Properties, Oxides 110 (1989) 229
Photoconductivity, Electrical Properties and Relaxation, Thin Films 110 (1989) 53

Crystallization
Chalcogenides, Differential Thermal Analysis, Electron Microscopy 110 (1989) 235
EXAFS, Metallic Glasses 110 (1989) 111
Metallic Glasses, Glasses Containing Transition Metal Ions 110 (1989) 81

Deposition Techniques
Semiconductors, Electronic Conductivity, Thin Films 110 (1989) 179

Dielectric Properties
Pressure Effects 110 (1989) 213
Relaxation 110 (1989) 211

Differential Thermal Analysis
Chalcogenides, Crystallization, Electron Microscopy 110 (1989) 235
Metallic Glasses, Glasses Containing Transition Metal Ions 110 (1989) 190

Drying
Sol–Gel Method, Electrochemical Properties, Ion Exchange 110 (1989) 17

Elastic Properties
Chalcogenides 110 (1989) 118

Electric Properties
Ionic Conductivity, Electrical Properties and Relaxation, Glass Formation 110 (1989) 101

Electrical Properties and Relaxation
Ionic Conductivity, Electric Properties, Glass Formation 110 (1989) 101
Photoconductivity, Chalcogenides, Thin Films 110 (1989) 53
XPS, Optical Properties 110 (1989) 33

Electrochemical Properties
Sol–Gel Method, Ion Exchange, Drying 110 (1989) 17

Electron Microscopy
Chalcogenides, Crystallization, Differential Thermal Analysis 110 (1989) 235

Electron Spin Resonance
Halide Glasses, Impurities 110 (1989) 273

Electronic Conductivity
Auger Electron Spectroscopy, XPS, Ionic Conductivity 110 (1989) 44
Semiconductors, Deposition Techniques, Thin Films 110 (1989) 179

EXAFS
Chalcogenides, Structure 110 (1989) 89
Crystallization, Metallic Glasses 110 (1989) 111
Metallic Glasses, Glasses Containing Transition Metal Ions, X-ray Diffraction 110 (1989) 74
Thin Films, Silicates 110 (1989) 249

Fluorescence
Structure, Silicates 110 (1989) 127

Glass Fibers
Nuclear Magnetic Resonance, Silicates 110 (1989) 1

Glass Formation
Ionic Conductivity, Electrical Properties and Relaxation, Electric Properties 110 (1989) 101
Metallic Glasses, X-ray Diffraction 110 (1989) 69

Glasses Containing Transition Metal Ions
Metallic Glasses, Crystallization 110 (1989) 81
Metallic Glasses, Differential Thermal Analysis 110 (1989) 190
Metallic Glasses, EXAFS, X-ray Diffraction 110 (1989) 74
Optical Properties, Oxides, Phosphates 110 (1989) 223

Halide Glasses
Electron Spin Resonance, Impurities 110 (1989) 273
Infra-red Absorption 110 (1989) 279
Raman Spectra, Structure 110 (1989) 265

Hydrogen Effects
Metallic Glasses, Phase Transition 110 (1989) 203

Impurities
Electron Spin Resonance, Halide Glasses 110 (1989) 273

Infra-red Absorption
Halide Glasses 110 (1989) 279

Internal Friction
Metallic Glasses, Mechanical Properties 110 (1989) 195

Ion Exchange
Sol–Gel Method, Electrochemical Properties, Drying 110 (1989) 17

Ionic Conductivity
Auger Electron Spectroscopy, XPS, Electronic Conductivity 110 (1989) 44
Electrical Properties and Relaxation, Electric Properties, Glass Formation 110 (1989) 101

Mechanical Properties
Metallic Glasses, Internal Friction 110 (1989) 195
Sol–Gel Method, Silica 110 (1989) 153

Metallic Glasses
Differential Thermal Analysis, Glasses Containing Transition Metal Ions 110 (1989) 190
EXAFS, Crystallization 110 (1989) 111
Glass Formation, X-ray Diffraction 110 (1989) 69
Glasses Containing Transition Metal Ions, Crystallization 110 (1989) 81
Glasses Containing Transition Metal Ions, EXAFS, X-ray Diffraction 110 (1989) 74
Mechanical Properties, Internal Friction 110 (1989) 195
Phase Transition, Hydrogen Effects 110 (1989) 203
Structure, X-ray Diffraction 110 (1989) 184
Thin Films, Sputtering, X-ray Diffraction 110 (1989) 258

Nuclear Magnetic Resonance
Silicates, Glass Fibers 110 (1989) 1

Optical Properties
Chalcogenides, Oxides 110 (1989) 229
Electrical Properties and Relaxation, XPS 110 (1989) 33
Oxides, Phosphates, Glasses Containing Transition Metal Ions 110 (1989) 223

Oxides
Optical Properties, Chalcogenides 110 (1989) 229
Optical Properties, Phosphates, Glasses Containing Transition Metal Ions 110 (1989) 223

Phase Transition
Metallic Glasses, Hydrogen Effects 110 (1989) 203

Phosphates
Optical Properties, Oxides, Glasses Containing Transition Metal Ions 110 (1989) 223
Sol–Gel Method, Silicates, Borates 110 (1989) 122

Photoconductivity
Chalcogenides, Electrical Properties and Relaxation, Thin Films 110 (1989) 53

Pressure Effects
Dielectric Properties 110 (1989) 213

Raman Spectra
Halide Glasses, Structure 110 (1989) 265
Structure 110 (1989) 61

Relaxation
Dielectric Properties 110 (1989) 211

Semiconductors
Deposition Techniques, Electronic Conductivity, Thin Films 110 (1989) 179
Thin Films, Transistors, Transport Properties – Devices 110 (1989) 175

Silica
Sol–Gel Method 110 (1989) 26
Sol–Gel Method, Mechanical Properties 110 (1989) 153
Sol–Gel Method, Thin Films 110 (1989) 163

Silicates
Absorption, Thin Films 110 (1989) 13
EXAFS, Thin Films 110 (1989) 249
Nuclear Magnetic Resonance, Glass Fibers 110 (1989) 1
Sol–Gel Method, Borates, Phosphates 110 (1989) 122
Structure, Fluorescence 110 (1989) 127

Sol–Gel Method
Catalysis, Surface Properties 110 (1989) 170
Electrochemical Properties, Ion Exchange, Drying 110 (1989) 17
Silica 110 (1989) 26
Silica, Mechanical Properties 110 (1989) 153
Silicates, Borates, Phosphates 110 (1989) 122
Thin Films, Silica 110 (1989) 163
Viscosity, Superconductors 110 (1989) 142

Sputtering
Thin Films, Metallic Glasses, X-ray Diffraction 110 (1989) 258

Structure
EXAFS, Chalcogenides 110 (1989) 89
Halide Glasses, Raman Spectra 110 (1989) 265
Metallic Glasses, X-ray Diffraction 110 (1989) 184
Raman Spectra 110 (1989) 61
Silicates, Fluorescence 110 (1989) 127

Superconductors
Sol–Gel Method, Viscosity 110 (1989) 142

Surface Properties
Sol–Gel Method, Catalysis 110 (1989) 170

Thin Films
EXAFS, Silicates 110 (1989) 249
Photoconductivity, Chalcogenides, Electrical Properties and Relaxation 110 (1989) 53
Semiconductors, Deposition Techniques, Electronic Conductivity 110 (1989) 179
Semiconductors, Transistors, Transport Properties – Devices 110 (1989) 175
Silicates, Absorption 110 (1989) 13
Sol–Gel Method, Silica 110 (1989) 163
Sputtering, Metallic Glasses, X-ray Diffraction 110 (1989) 258

Transistors
Semiconductors, Thin Films, Transport Properties – Devices 110 (1989) 175

Transport Properties – Devices
Semiconductors, Thin Films, Transistors 110 (1989) 175

Viscosity
Sol–Gel Method, Superconductors 110 (1989) 142

X-ray Diffraction
Metallic Glasses, Glass Formation 110 (1989) 69
Metallic Glasses, Glasses Containing Transition Metal Ions, EXAFS 110 (1989) 74
Structure, Metallic Glasses 110 (1989) 184
Thin Films, Sputtering, Metallic Glasses 110 (1989) 258

XPS
Auger Electron Spectroscopy, Ionic Conductivity, Electronic Conductivity 110 (1989) 44
Electrical Properties and Relaxation, Optical Properties 110 (1989) 33